



<b>Job title</b>	Research Associate/Fellow	<b>Job family and level</b>	Research and Teaching Level 4 (Appointment will be Level 4 Career training grade where an appointment is made before PhD has been completed)
<b>School/ Department</b>	School of Physics and Astronomy	<b>Location</b>	University Park Campus

## Purpose of role

To develop pulse sequences for dynamic imaging on a 0.5T ASG open MRI scanner and to support a diverse range of applications studies that require the unique capabilities of this scanner.

The researcher will be an integral part of the Sir Peter Mansfield Imaging Centre and the School of Physics and Astronomy.

The main responsibility of this post will be to carry out independent research on MRI. The researcher is moreover expected to actively contribute to the research activities of the Sir Peter Mansfield Imaging Centre.

	<b>Main responsibilities</b>	<b>% time per year</b>
1	Developing and optimizing MRI pulse sequences for applications including lung, gut and MSK. This is likely to include programming the ASG scanner for which system specific training will be provided.	25%
2	Analysing MRI images and derived data (including using standard software or writing programmes when required).	25%
3	Coordinating exemplar clinical research studies in patients or volunteers.	20%
4	Writing applications for ethics approval.	10%
5	Prepare and present results in meetings and writing abstracts and paper.	10%
6	Working within multidisciplinary teams to devise new experiments and to encourage new users of the facility.	10%

## Person specification

	Essential	Desirable
<b>Skills</b>	<ul style="list-style-type: none"> <li>▪ Computer programming for physical sciences.</li> <li>▪ Excellent oral and written communication skills, including the ability to communicate with clarity on complex information.</li> <li>▪ High analytical ability to analyse and illuminate data, interpret reports and bring new insights.</li> <li>▪ Ability to assess and organise resource requirements and deploy effectively.</li> <li>▪ Ability to build relationships and collaborate with others, both internally and externally.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Coding an MRI scanner</li> <li>▪ Image analysis</li> <li>▪ Data analysis</li> <li>▪ Writing software for image and/or data analysis</li> </ul>
<b>Knowledge and experience</b>	<ul style="list-style-type: none"> <li>▪ Knowledge of MRI physics</li> <li>▪ Experience of writing abstracts and papers</li> </ul>	<ul style="list-style-type: none"> <li>▪ Knowledge of how to create MRI pulse sequences</li> <li>▪ Experience of writing submissions for ethics approval</li> </ul>
<b>Qualifications, certification and training (relevant to role)</b>	<ul style="list-style-type: none"> <li>▪ PhD (or nearing completion) or equivalent in relevant subject area or the equivalent in professional qualifications and experience in research area.</li> </ul>	



The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.



The University is a signatory of the Declaration on Research Assessment (DORA). As such we commit to focus on the scientific content of publications (where requested or provided as part of the recruitment and selection process) as a basis for review of quality, and consideration of value and impact of research conducted, rather than any proxy measures such as Journal Impact Factor.

## Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.
- Taking ownership** Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.
- Forward thinking** Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.
- Professional pride** Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.
- Always inclusive** Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

## Key relationships with others



